

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद Indian Institute of Technology (Indian School of Mines), Dhanbad

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PRESS-RELEASE

IIT (ISM) Dhanbad Hosts Insightful Keynote Lecture on Waste to Wealth Initiative

The EIACP Programme Centre at the Department of Environmental Science and Engineering, in association with the Society of Environmental Science and Engineering, IIT (ISM) Dhanbad, successfully organized an insightful keynote lecture as part of the *Mission LiFE: Lifestyle for Environment Keynote Lecture Series [2024-25]* on 26th February 2025 at GJLT, IIT (ISM) Dhanbad.

The keynote lecture was delivered by the esteemed Dr. Partha Chakravarty, MD, Rigel Bioenviron Solutions Pvt. Ltd., Kolkata, India. Dr. Chakravarty's session, titled "Waste to Wealth Initiative: Converting Waste Organics to Valuable Polyhydroxyalkanoates (PHAs) Bio-plastic, Bio-CNG, Bio-derivatives via Cost-Effective Techniques," captivated the audience with its emphasis on sustainable waste management and innovative bio-solutions.

Dr. Chakravarty highlighted the pressing global challenge of mounting organic pollutants and presented cost-effective techniques to convert waste into high-end value-added products, including PHA bioplastics, biofuels, and bio-derivatives. His lecture underscored the potential of these solutions in reducing bioplastic production costs, minimizing import dependency, and promoting biofuels as a viable alternative to fossil fuels at reduced prices. His insights encouraged attendees to critically assess sustainable waste management and bio-innovation strategies.

Following the lecture, Dr. Chakravarty conducted a hands-on laboratory demonstration, providing participants with a practical understanding of the bio-plastic production process from sludge. This interactive session further enriched the participants' knowledge of cutting-edge biotechnological advancements in waste management.

The event was successfully conducted under the guidance and support of distinguished faculty members, including Prof. Alok Sinha (Head of Department, ESE & Coordinator, EIACP Centre), Prof. S.K. Maiti (Professor (HAG), Dept. of ESE), Prof. S.K. Gupta (Dean - Student Welfare & Professor (HAG), Dept. of ESE), and Prof. Suresh Pandian (Associate Professor, Dept. of ESE & Co-coordinator, EIACP Centre).

This initiative was proudly sponsored by the Ministry of Environment, Forest, and Climate Change (MoEF&CC), Government of India, reaffirming IIT (ISM) Dhanbad's commitment to fostering sustainable environmental solutions through education, research, and outreach.

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